



Stationary read device

CleverReader

VOI1000-F330-4MM-R2

- Reads all standard 1-D and 2-D codes
- Reads from reflective surfaces
- Easy alignment with LED aiming pattern
- Automatic reading by motion detection
- Trigger button
- Simple parameterization using control codes

Stationary code reader for all common 1-D barcodes and 2-D codes (including DataMatrix and QR codes); RS-232 data transmission



Function

The CleverReader VOI is equipped with a powerful megapixel camera and is suitable for reliable scanning of 1D and 2D codes in a variety of environments. Using infrared and light sensors, the CleverReader ensures reliable code reading even in difficult lighting conditions. Its powerful light provides optimal illumination of codes, while the exposure control automatically adjusts to ambient light conditions. The CleverReader has multiple trigger modes. A reading can be triggered by hardware trigger, software trigger or automatic motion detection. A trigger button is also available for hands-free operation or testing. With its robust housing and IP54 protection rating, the CleverReader is designed for use in factory automation.

Technical Data

General specifications

Light type	white LED
Readable codes	1-D: Code128, Code93, Code39, Code 49, Code11, EAN-8/-13, UPC-A/-E, Interleaved 2 of 5, Codabar, Plessy, MSI-Plessy, GS1-128, GS1-Databar, ISBN, AIM 128, Industrial 25, ISBT128, Postal codes 2-D: Data Matrix, QR-Code, Micro QR-Code, PDF417, Micro PDF 417, Aztec, Maxicode, Code GM, Code One
Scan rate	60 s ⁻¹
Depth of focus	50 ... 170 mm (Data Matrix code with 0.25 mm module size) 55 ... 360 mm (EAN 13 with 0.33 mm bar width)
Reading field	Horizontal: 51° Vertical: 32°
Target velocity	

Nominal ratings

Camera	
Type	CMOS
Number of pixels	1280 x 800 pixels

Indicators/operating means

Control elements	1 Button for manual triggering
LED 1	Power LED
LED 2	Good-read LED
Target marker	Green LED bar

Electrical specifications

Operating voltage	U _B	5 V DC ± 5 %
Operating current	I _B	276.8 mA (typically) , 322.7 mA (max)
Supply		Power supply

Interface

Interface type	RS-232
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Conformity

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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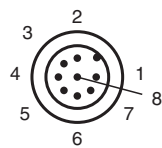
Technical Data

Photobiological safety		Risk group 0 according to IEC 62471	
Approvals and certificates			
CE conformity		yes	
FCC approval			Complies with Part 15 of the FCC regulations for a Class B device and the EMC Directive for a Class B device and therefore bears the CE mark.
Ambient conditions			
Ambient temperature			-20 ... 60 °C (-4 ... 140 °F)
Storage temperature			-40 ... 70 °C (-40 ... 158 °F)
Relative humidity			5 ... 95 % non-condensing
Mechanical specifications			
Connection type			8-pin, M12 x 1 connector
Degree of protection			IP54
Material			
Housing			PC/ABS
Optical face			Plastic pane
Cable			
Length		L	2 m
Mass			approx. 75 g
Dimensions			
Height			24.3 mm
Width			41.5 mm
Depth			49.5 mm

Connection Assignment

Pin	Signal
1	RX
2	Good
3	Bad / (Match)
4	TX
5	n.c.
6	Trigger
7	GND
8	+5V
(9)	Shield

Connection Assignment



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